

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/028,245A  
Source: IFW/6  
Date Processed by STIC: 5/23/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 05/23/2005

PATENT APPLICATION: US/10/028,245A

TIME: 09:30:02

Input Set : A:\GC700-SEQLIST2.TXT

Output Set: N:\CRF4\05232005\J028245A.raw

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4 <110> APPLICANT: Dunn-Coleman, Nigel
5      Goedegebuur, Frits
6      Ward, Michael
7      Yao, Jian
9 <120> TITLE OF INVENTION: EGVIII Endoglucanase and Nucleic Acids
10     Encoding the Same
12 <130> FILE REFERENCE: GC700
14 <140> CURRENT APPLICATION NUMBER: US 10/028,245A
15 <141> CURRENT FILING DATE: 2001-12-18
17 <160> NUMBER OF SEQ ID NOS: 5
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1826
23 <212> TYPE: DNA
24 <213> ORGANISM: Trichoderma reesei
26 <400> SEQUENCE: 1
27 gtcgaccac gcgtccgttc attcttcttc cctcctcct cctcctcctc ctcccccttct      60
28 ccccatcac cgtcaccact ctctcattg ccgtctcttc tgcgagccat gacgcagcat      120
29 taacacacac tcgtttctgt tactctcgct gtcgtcggct ctgctcgttg gcattctgct      180
30 tagcactttg tttcgttctt cgttctcttt taatccgtca tcttctgcaa tctgctgcca      240
31 tttgttcgac taggtagtgg taatatacgg acagcttttt ttccctcgct caacacgtcg      300
32 acgtacaatt aatacaccat ctcgtaatac ggatatatcc ctcgccctct tcctggtgct      360
33 tgtgcgacgc tcctcgtttc tccctctcat tatgcgcgca acctcccttc tggccgccgc      420
34 cttggccgtg gctggcgatg ccctcgccgg caagatcaaa tatctgggcg tcgccattcc      480
35 cggaatcgac tttggctgcg acatcgacgg cagctgtccg actgacacgt cgtctgtgcc      540
36 cctgctgagc tacaaaaggag gagatggcgc cggccagatg aagcatttcg ccgaagacga      600
37 cggcctcaac gtctttcgca tatccgtac atggcagttt gtcctcaaca acacggtgga      660
38 cggcaagctg gacgagctca actggggctc ctacaacaag gtcgtcaacg cctgtctcga      720
39 gacgggcgcc tactgcatga ttgacatgca caactttgcc cgctacaacg gcggcatcat      780
40 cggccaggga ggcgtgtcgg acgacatctt tgtcgacctc tgggtccaga tcgcaaagta      840
41 ctacgaggac aacgacaaga tcatctttgg cctgatgaac gagccgcacg acctcgacat      900
42 tgagatctgg gcgcagacgt gccaaaaggc cgtcactgcg atccgaaagg ccggcgccac      960
43 ctcgagatg atcctcctgc ccggaaccaa ctttgccagc gtcgagacgt atgtgtccac      1020
44 tggcagcgcg gaagccctcg gcaagattac gaaccgggat ggaagcaccg atttgctgta      1080
45 ctttgatgtc cacaagtatc tcgacatcaa caactccggg tcgcacgccg agtgaccac      1140
46 agacaacgtc gacgccttca acgacttcgc ggactggctg aggcagaaca agcgccaggc      1200
47 catcatctcc gaaacgggcg cgtccatgga accttcgtgc atgactgcct tctgcgcccc      1260
48 gaacaaggcc attagcgaaa acagcgacgt ctacattggc tttgtgggct ggggtgccgg      1320
49 cagctttgac acgtcgtaca tcttgactct gactccctc ggcaagcccg gcaactacac      1380
50 cgacaacaag ctcatgaacg agtgcattct ggaccagttt acctcgacg aaaagtaccg      1440
51 tccaacaccc acctcaattt ccacagcggc ggaagagacg gccacggcga cagcaacctc      1500
52 tgacggcgac gcgccatcca ctacgaagcc catctttagg gaagaaaccg cctctccac      1560
53 tccaatgct gttaccaagc cctcgcccga cagagcgac tcttccgacg acgacaagga      1620

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54 ctcggcagca tctatgagtg cccagggcctt gacaggcacg gtgctgttta ctgttgctgc 1680
55 ccttggtctac atgctggttag cgttttgatg tttttttttt aatgagtttg tatacctaata 1740
56 gagcatgatt gagatgctac gtagtatata tgtcttttacg ggtacataag actagagcca 1800
57 tgttgtaatc aaaaaaaaaa aaaaaaa 1826
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 419
61 <212> TYPE: PRT
62 <213> ORGANISM: Trichoderma reesei
64 <400> SEQUENCE: 2
65 Gly Lys Ile Lys Tyr Leu Gly Val Ala Ile Pro Gly Ile Asp Phe Gly
66 1 5 10 15
67 Cys Asp Ile Asp Gly Ser Cys Pro Thr Asp Thr Ser Ser Val Pro Leu
68 20 25 30
69 Leu Ser Tyr Lys Gly Gly Asp Gly Ala Gly Gln Met Lys His Phe Ala
70 35 40 45
71 Glu Asp Asp Gly Leu Asn Val Phe Arg Ile Ser Ala Thr Trp Gln Phe
72 50 55 60
73 Val Leu Asn Asn Thr Val Asp Gly Lys Leu Asp Glu Leu Asn Trp Gly
74 65 70 75 80
75 Ser Tyr Asn Lys Val Val Asn Ala Cys Leu Glu Thr Gly Ala Tyr Cys
76 85 90 95
77 Met Ile Asp Met His Asn Phe Ala Arg Tyr Asn Gly Gly Ile Ile Gly
78 100 105 110
79 Gln Gly Gly Val Ser Asp Asp Ile Phe Val Asp Leu Trp Val Gln Ile
80 115 120 125
81 Ala Lys Tyr Tyr Glu Asp Asn Asp Lys Ile Ile Phe Gly Leu Met Asn
82 130 135 140
83 Glu Pro His Asp Leu Asp Ile Glu Ile Trp Ala Gln Thr Cys Gln Lys
84 145 150 155 160
85 Val Val Thr Ala Ile Arg Lys Ala Gly Ala Thr Ser Gln Met Ile Leu
86 165 170 175
87 Leu Pro Gly Thr Asn Phe Ala Ser Val Glu Thr Tyr Val Ser Thr Gly
88 180 185 190
89 Ser Ala Glu Ala Leu Gly Lys Ile Thr Asn Pro Asp Gly Ser Thr Asp
90 195 200 205
91 Leu Leu Tyr Phe Asp Val His Lys Tyr Leu Asp Ile Asn Asn Ser Gly
92 210 215 220
93 Ser His Ala Glu Cys Thr Thr Asp Asn Val Asp Ala Phe Asn Asp Phe
94 225 230 235 240
95 Ala Asp Trp Leu Arg Gln Asn Lys Arg Gln Ala Ile Ile Ser Glu Thr
96 245 250 255
97 Gly Ala Ser Met Glu Pro Ser Cys Met Thr Ala Phe Cys Ala Gln Asn
98 260 265 270
99 Lys Ala Ile Ser Glu Asn Ser Asp Val Tyr Ile Gly Phe Val Gly Trp
100 275 280 285
101 Gly Ala Gly Ser Phe Asp Thr Ser Tyr Ile Leu Thr Leu Thr Pro Leu
102 290 295 300
103 Gly Lys Pro Gly Asn Tyr Thr Asp Asn Lys Leu Met Asn Glu Cys Ile
104 305 310 315 320

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105 Leu Asp Gln Phe Thr Leu Asp Glu Lys Tyr Arg Pro Thr Pro Thr Ser  
 106 325 330 335  
 107 Ile Ser Thr Ala Ala Glu Glu Thr Ala Thr Ala Thr Ser Asp  
 108 340 345 350  
 109 Gly Asp Ala Pro Ser Thr Thr Lys Pro Ile Phe Arg Glu Glu Thr Ala  
 110 355 360 365  
 111 Ser Pro Thr Pro Asn Ala Val Thr Lys Pro Ser Pro Asp Thr Ser Asp  
 112 370 375 380  
 113 Ser Ser Asp Asp Asp Lys Asp Ser Ala Ala Ser Met Ser Ala Gln Gly  
 114 385 390 395 400  
 115 Leu Thr Gly Thr Val Leu Phe Thr Val Ala Ala Leu Gly Tyr Met Leu  
 116 405 410 415  
 117 Val Ala Phe  
 119 <210> SEQ ID NO: 3  
 120 <211> LENGTH: 19  
 121 <212> TYPE: PRT  
 122 <213> ORGANISM: Trichoderma reesei  
 124 <400> SEQUENCE: 3  
 125 Met Arg Ala Thr Ser Leu Leu Ala Ala Ala Leu Ala Val Ala Gly Asp  
 126 1 5 10 15  
 127 Ala Leu Ala  
 129 <210> SEQ ID NO: 4  
 130 <211> LENGTH: 1317  
 131 <212> TYPE: DNA  
 132 <213> ORGANISM: Trichoderma reesei  
 134 <400> SEQUENCE: 4

135 atgcgcgcaa cctcccttct ggccgcccgc ttggccgtgg ctggcgatgc cctcgccggc 60  
 136 aagatcaaat atctgggctg cgccattccc ggaatcgact ttggctgcga catcgacggc 120  
 137 agctgtccga ctgacacgtc gtctgtgccc ctgctgagct acaaaggagg agatggcgcc 180  
 138 ggccagatga agcatttcgc cgaagacgac ggccctcaacg tctttcgcac atccgctaca 240  
 139 tggcagtttg tcctcaacaa cacggtggac ggcaagctgg acgagctcaa ctggggctcc 300  
 140 tacaacaagg tcgtcaacgc ctgtctcgag acgggcccct actgcatgat tgacatgcac 360  
 141 aactttgccc gctacaacgg cgcatcatc ggccaggag gcgtgtcgga cgacatcttt 420  
 142 gtcgacctct gggccagat cgcaaaagta tacgaggaca acgacaagat catctttggc 480  
 143 ctgatgaacg agccgcacga cctcgacatt gagatctggg cgcagacgtg ccaaaaggctc 540  
 144 gtcactgcga tccgaaaggc cggcgcccacc tcgcagatga tcctcctgcc cggaaccaac 600  
 145 tttgccagcg tcgagacgta tgtgtccact ggcagcgcgg aagccctcgg caagattacg 660  
 146 aaccgggatg gaagcaccga tttgctgtac tttgatgtcc acaagtatct cgacatcaac 720  
 147 aactccgggt cgcacgccga gtgcaccaca gacaacgtcg acgccttcaa cgacttcgcg 780  
 148 gactggctga ggcagaacaa gcgccaggcc atcatctccg aaacgggccc gtccatggaa 840  
 149 ccttcgtgca tgactgcctt ctgcgcccag aacaaggcca ttagcgaaaa cagcgacgtc 900  
 150 tacattggct ttgtgggctg gggtgccggc agctttgaca cgtcgtagat cttgactctg 960  
 151 actcccctcg gcaagcccgg caactacacc gacaacaagc tcatgaacga gtgcattctg 1020  
 152 gaccagttaa ccctcgacga aaagtaccgt ccaacaccca cctcaatttc cacagcgcg 1080  
 153 gaagagacgg ccacggcgac agcaacctct gacggcgacg cgccatccac tacgaagccc 1140  
 154 atctttaggg aagaaaccgc ctctcccact cccaatgctg ttaccaagcc ctcgcccgc 1200  
 155 acgagcgact cttccgacga cgacaaggac tcggcagcat ctatgagtgc ccagggcttg 1260  
 156 acaggcacgg tgctgtttac tggtgctgcc cttggctaca tgctggtagc gttttga 1317  
 158 <210> SEQ ID NO: 5

## RAW SEQUENCE LISTING

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159 <211> LENGTH: 438
160 <212> TYPE: PRT
161 <213> ORGANISM: Trichoderma reesei
163 <400> SEQUENCE: 5
164 Met Arg Ala Thr Ser Leu Leu Ala Ala Ala Leu Ala Val Ala Gly Asp
165 1 5 10 15
166 Ala Leu Ala Gly Lys Ile Lys Tyr Leu Gly Val Ala Ile Pro Gly Ile
167 20 25 30
168 Asp Phe Gly Cys Asp Ile Asp Gly Ser Cys Pro Thr Asp Thr Ser Ser
169 35 40 45
170 Val Pro Leu Leu Ser Tyr Lys Gly Gly Asp Gly Ala Gly Gln Met Lys
171 50 55 60
172 His Phe Ala Glu Asp Asp Gly Leu Asn Val Phe Arg Ile Ser Ala Thr
173 65 70 75 80
174 Trp Gln Phe Val Leu Asn Asn Thr Val Asp Gly Lys Leu Asp Glu Leu
175 85 90 95
176 Asn Trp Gly Ser Tyr Asn Lys Val Val Asn Ala Cys Leu Glu Thr Gly
177 100 105 110
178 Ala Tyr Cys Met Ile Asp Met His Asn Phe Ala Arg Tyr Asn Gly Gly
179 115 120 125
180 Ile Ile Gly Gln Gly Gly Val Ser Asp Asp Ile Phe Val Asp Leu Trp
181 130 135 140
182 Val Gln Ile Ala Lys Tyr Tyr Glu Asp Asn Asp Lys Ile Ile Phe Gly
183 145 150 155 160
184 Leu Met Asn Glu Pro His Asp Leu Asp Ile Glu Ile Trp Ala Gln Thr
185 165 170 175
186 Cys Gln Lys Val Val Thr Ala Ile Arg Lys Ala Gly Ala Thr Ser Gln
187 180 185 190
188 Met Ile Leu Leu Pro Gly Thr Asn Phe Ala Ser Val Glu Thr Tyr Val
189 195 200 205
190 Ser Thr Gly Ser Ala Glu Ala Leu Gly Lys Ile Thr Asn Pro Asp Gly
191 210 215 220
192 Ser Thr Asp Leu Leu Tyr Phe Asp Val His Lys Tyr Leu Asp Ile Asn
193 225 230 235 240
194 Asn Ser Gly Ser His Ala Glu Cys Thr Thr Asp Asn Val Asp Ala Phe
195 245 250 255
196 Asn Asp Phe Ala Asp Trp Leu Arg Gln Asn Lys Arg Gln Ala Ile Ile
197 260 265 270
198 Ser Glu Thr Gly Ala Ser Met Glu Pro Ser Cys Met Thr Ala Phe Cys
199 275 280 285
200 Ala Gln Asn Lys Ala Ile Ser Glu Asn Ser Asp Val Tyr Ile Gly Phe
201 290 295 300
202 Val Gly Trp Gly Ala Gly Ser Phe Asp Thr Ser Tyr Ile Leu Thr Leu
203 305 310 315 320
204 Thr Pro Leu Gly Lys Pro Gly Asn Tyr Thr Asp Asn Lys Leu Met Asn
205 325 330 335
206 Glu Cys Ile Leu Asp Gln Phe Thr Leu Asp Glu Lys Tyr Arg Pro Thr
207 340 345 350
208 Pro Thr Ser Ile Ser Thr Ala Ala Glu Glu Thr Ala Thr Ala

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209		355		360		365													
210	Thr	Ser	Asp	Gly	Asp	Ala	Pro	Ser	Thr	Thr	Lys	Pro	Ile	Phe	Arg	Glu			
211			370				375				380								
212	Glu	Thr	Ala	Ser	Pro	Thr	Pro	Asn	Ala	Val	Thr	Lys	Pro	Ser	Pro	Asp			
213	385					390					395					400			
214	Thr	Ser	Asp	Ser	Ser	Asp	Asp	Asp	Lys	Asp	Ser	Ala	Ala	Ser	Met	Ser			
215					405					410					415				
216	Ala	Gln	Gly	Leu	Thr	Gly	Thr	Val	Leu	Phe	Thr	Val	Ala	Ala	Leu	Gly			
217				420					425						430				
218	Tyr	Met	Leu	Val	Ala	Phe													
219			435																

**VERIFICATION SUMMARY**

DATE: 05/23/2005

PATENT APPLICATION: US/10/028,245A

TIME: 09:30:03

Input Set : A:\GC700-SEQLIST2.TXT

Output Set: N:\CRF4\05232005\J028245A.raw